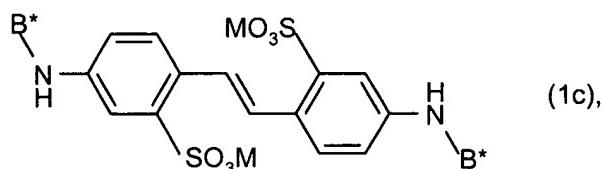
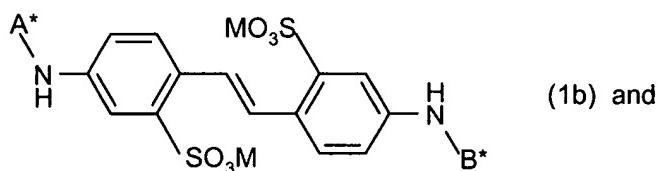
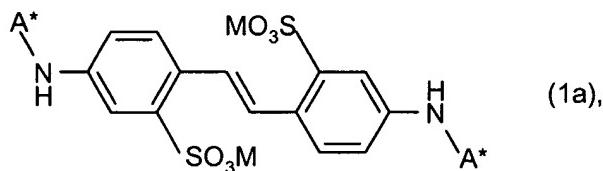


## IN THE CLAIMS

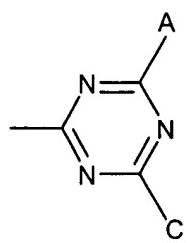
The text of all claims under examination is submitted, and the status of each is identified. This listing of claims replaces all prior versions, and listings, of claims in the application.

**1.(currently amended):** A fluorescent whitening agent, which comprises a mixture of compounds of the formulae



in which

A\* represents a group of the formula

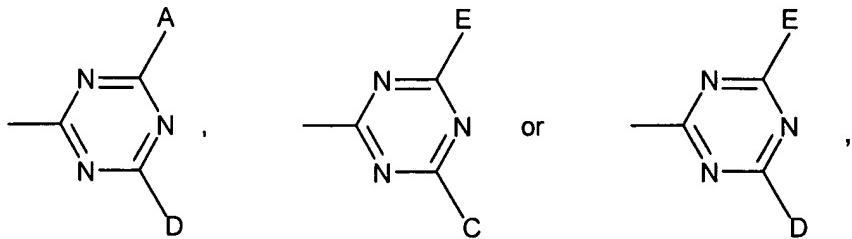


wherein

A represents -X-Y-NR<sub>3</sub>R<sub>4</sub> and

C is -NR<sub>1</sub>R<sub>2</sub> and

B\* represents a group of the formula



whereby the groups A\* and B\* are not identical,

wherein

D represents  $-\text{NR}_5\text{R}_6$  and

E represents  $-\text{X}_1-\text{Y}_1-\text{NR}_7\text{R}_8$ , whereby

X and X<sub>1</sub> each, independently of each other, represent -O- or -NH-,

Y and Y<sub>1</sub> each, independently of each other, represent a straight-chain C<sub>2</sub>-C<sub>8</sub>alkylene or branched C<sub>3</sub>-C<sub>8</sub>alkylene chain, which may be interrupted by one or two nitrogen, oxygen or sulphur atoms or represent a 5- or 6-membered cycloaliphatic ring,

R<sub>1</sub>, R<sub>2</sub>, R<sub>5</sub> and R<sub>6</sub> each independently of each other, represent hydrogen, C<sub>1</sub>-C<sub>8</sub>alkyl,

C<sub>2</sub>-C<sub>4</sub>hydroxyalkyl, C<sub>1</sub>-C<sub>4</sub>alkoxyC<sub>1</sub>-C<sub>4</sub>alkyl, phenyl, which is unsubstituted or substituted by halogen, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>1</sub>-C<sub>4</sub>alkyl or sulphonamido, or

R<sub>1</sub> and R<sub>2</sub> and /or R<sub>5</sub> and R<sub>6</sub>, together with the nitrogen atom to which they are attached, complete a morpholino- piperidino- or pyrrolidino-ring,

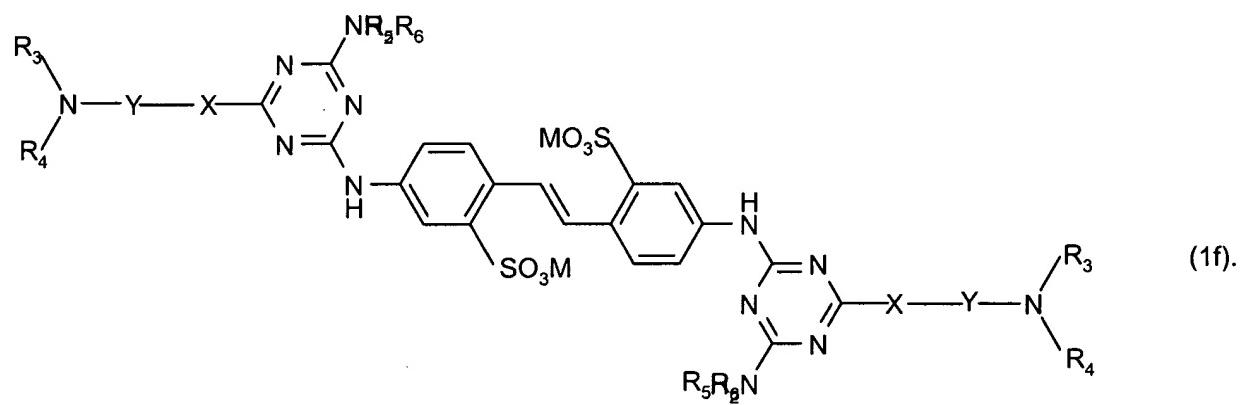
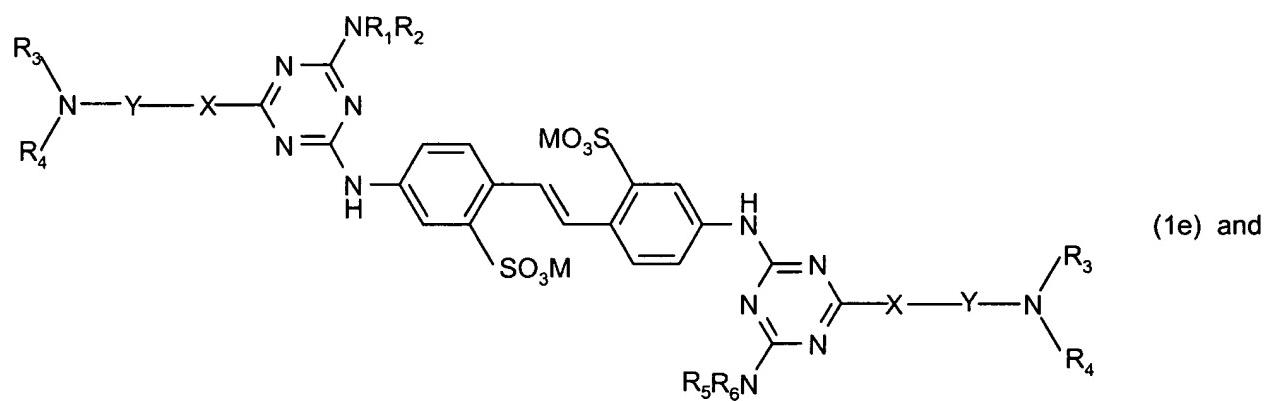
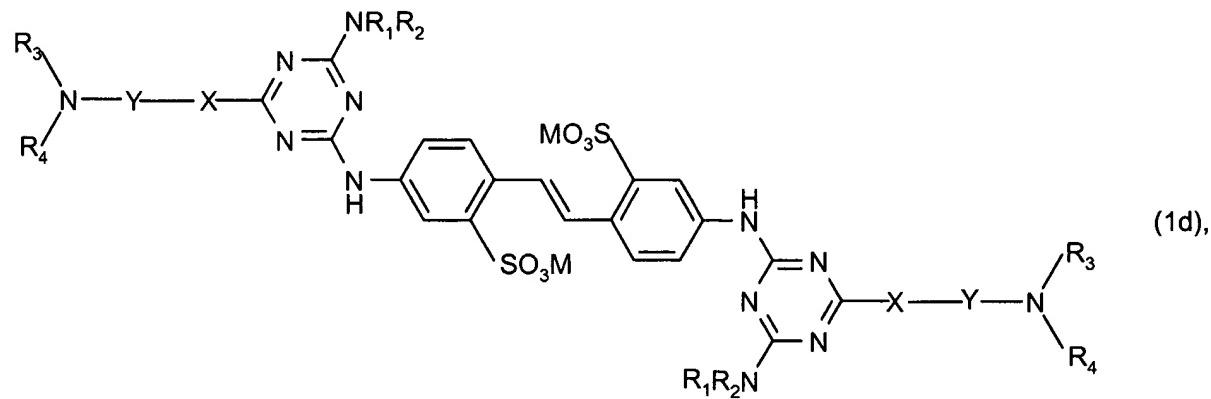
R<sub>3</sub>, R<sub>4</sub>, R<sub>7</sub> and R<sub>8</sub>, each independently of each other, represent hydrogen, C<sub>1</sub>-C<sub>4</sub>alkyl,

C<sub>2</sub>-C<sub>4</sub>hydroxyalkyl or

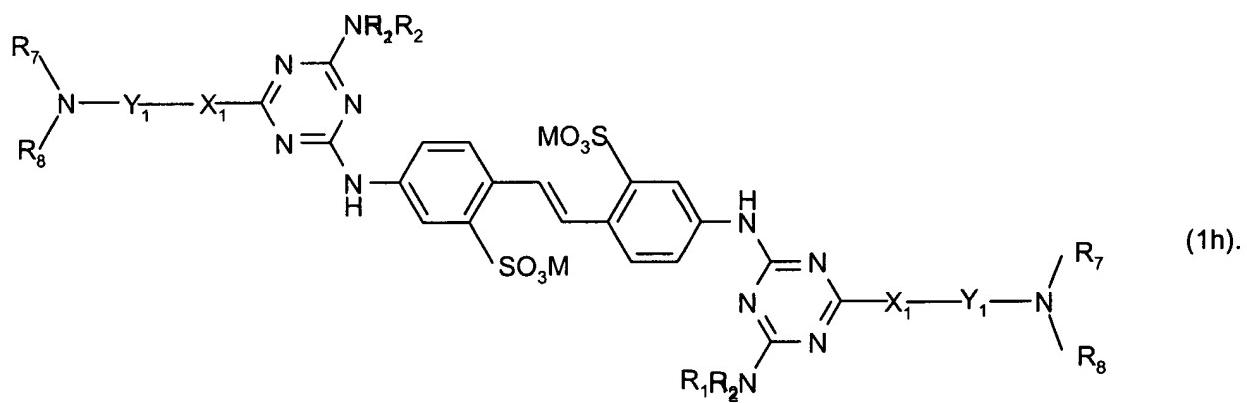
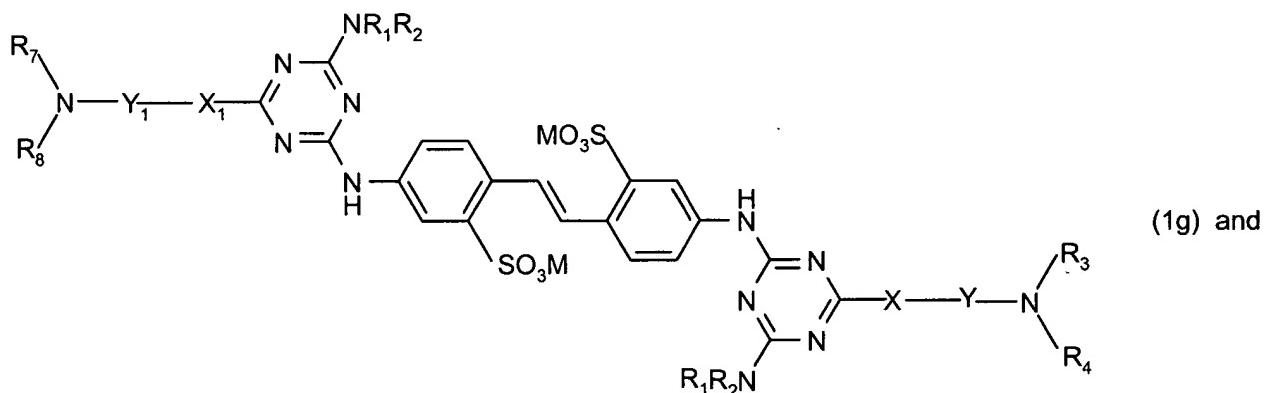
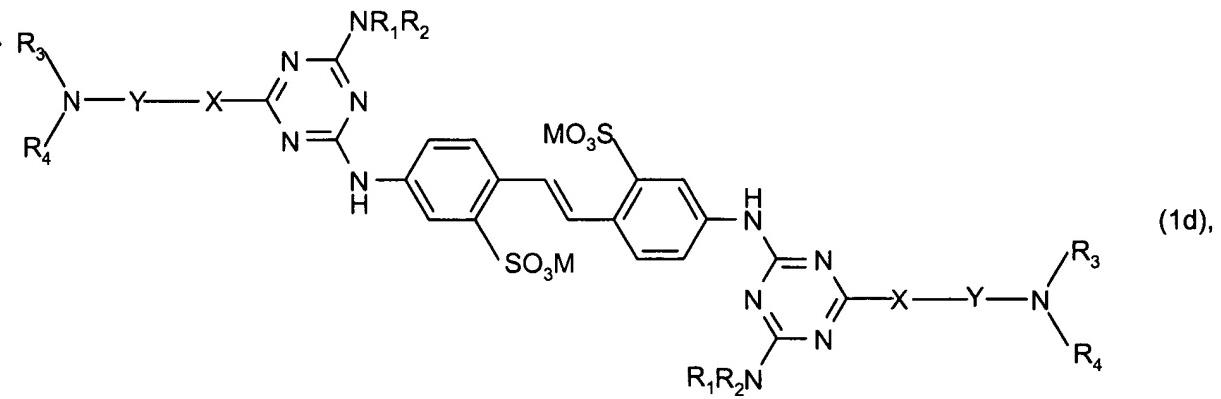
R<sub>3</sub> and R<sub>4</sub> and/or R<sub>7</sub> and R<sub>8</sub>, together with the nitrogen atom to which they are attached, complete a morpholino-, piperidino- or pyrrolidino-ring and

M represents hydrogen, an alkaline or alkaline earth metal, ammonium or alkylammonium.

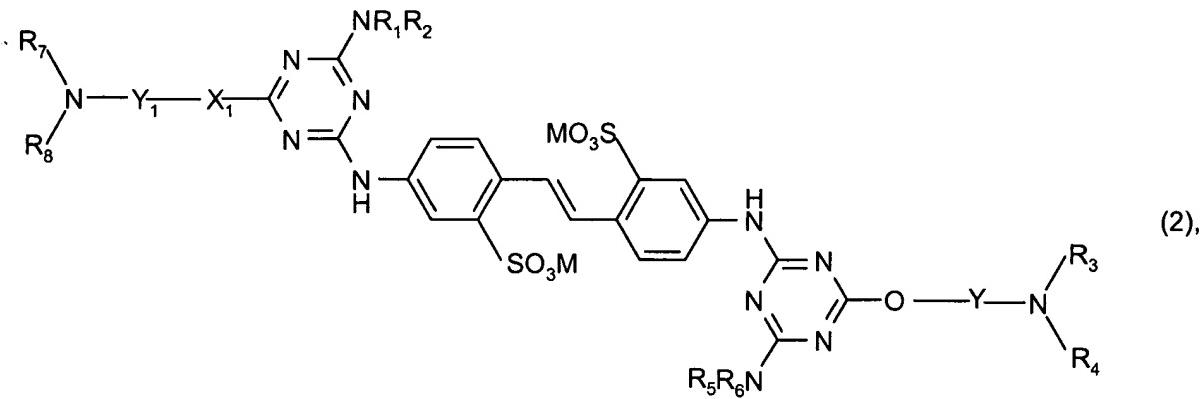
**2. (previously presented):** A fluorescent whitening agent, according to claim 1, which comprises a mixture of compounds of the formulae



**3. (previously presented):** A fluorescent whitening agent, according to claim 1, which comprises a mixture of compounds of the formulae



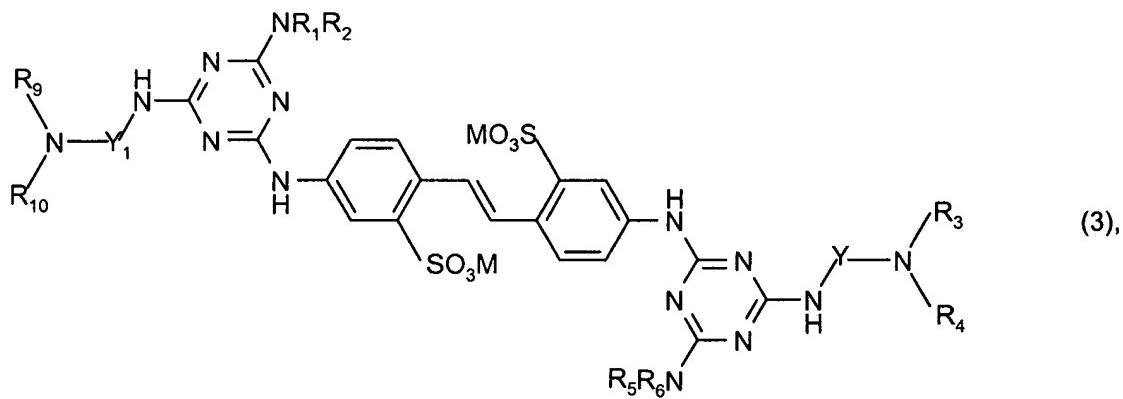
4. (original): A compound of formula



in which

$X_1$ ,  $Y$ ,  $Y_1$ ,  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$ ,  $R_8$  and  $M$  are as defined in claim 1.

5. (currently amended): A compound of the formula



in which

$R_9$  and  $R_{10}$ , each independently of each other, represent hydrogen or  $C_2$ - $C_4$ hydroxyalkyl and  
 $Y_1$  and  $Y_1$  each, independently of each other, represent a straight-chain  $C_2$ - $C_8$ alkylene or branched  $C_3$ - $C_8$ alkylene chain, which may be interrupted by one or two nitrogen, oxygen or sulphur atoms or represent a 5- or 6-membered cycloaliphatic ring,

$R_1$ ,  $R_2$ ,  $R_5$  and  $R_6$  each independently of each other, represent hydrogen,  $C_1$ - $C_8$ alkyl,  $C_2$ - $C_4$ hydroxyalkyl,  $C_1$ - $C_4$ alkoxy $C_1$ - $C_4$ alkyl, phenyl, which is unsubstituted or substituted by halogen,  $C_1$ - $C_4$ alkoxy,  $C_1$ - $C_4$ alkyl or sulphonamido, or  
 $R_1$  and  $R_2$  and /or  $R_5$  and  $R_6$ , together with the nitrogen atom to which they are attached, complete a morpholino- piperidino- or pyrrolidino-ring,

$R_3$  and  $R_4$  each independently of each other, represent hydrogen,  $C_1$ - $C_4$ alkyl,  $C_2$ - $C_4$ hydroxyalkyl or

R<sub>3</sub> and R<sub>4</sub>, together with the nitrogen atom to which they are attached, complete a morpholino-, piperidino- or pyrrolidino-ring and

M represents hydrogen, an alkaline or alkaline earth metal, ammonium or alkylammonium

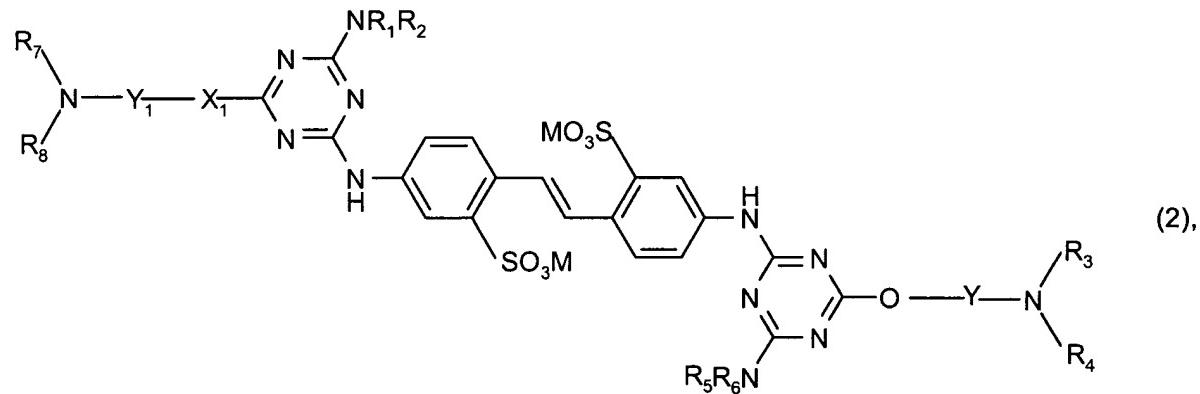
$R_1, R_2, R_3, R_4, R_5, R_6$ , and  $M$  are as defined in claim 1.

with the proviso that when

$Y$  and  $Y_1$  both represent  $-CH_2CH_2CH_2-$ ,  $R_1$  and  $R_5$  are both phenyl and  $R_2$  and  $R_6$  are both hydrogen,  $R_3$ ,  $R_4$ ,  $R_9$  and  $R_{10}$  are not all  $-CH_2CH_2OH$ .

**6. (previously presented):** A process for the preparation of a mixture of compounds of formulae (1a), (1b) and (1c), according to claim 1, by reacting, under known reaction conditions, cyanuric chloride, successively, in any desired sequence, with each of 4,4'-diaminostilbene-2,2'-disulphonic acid, amino compounds of formulae  $R_1R_2NH$  and  $R_5R_6NH$  or mixtures thereof and compounds of formulae  $R_3R_4YXH$  and  $R_7R_8Y_1X_1H$  or mixtures thereof.

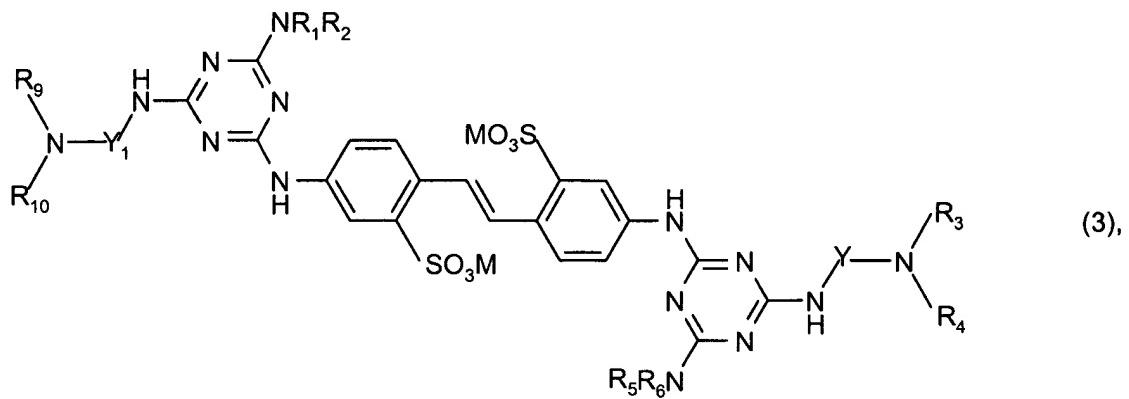
7. (previously presented): A process for the preparation of a compound of formula (2),



by reacting, under known reaction conditions, cyanuric chloride, successively, in any desired sequence, with each of 4,4'-diaminostilbene-2,2'-disulphonic acid, an amino compound of formula  $R_1R_2NH$ , an amino compound of formula  $R_5R_6NH$ , a hydroxy compound of formula  $R_3R_4NYOH$  and a compound of formula  $R_7R_8NY_1X_1H$ .

X<sub>1</sub>, Y, Y<sub>1</sub>, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, R<sub>7</sub> and R<sub>8</sub> being as defined in claim 1.

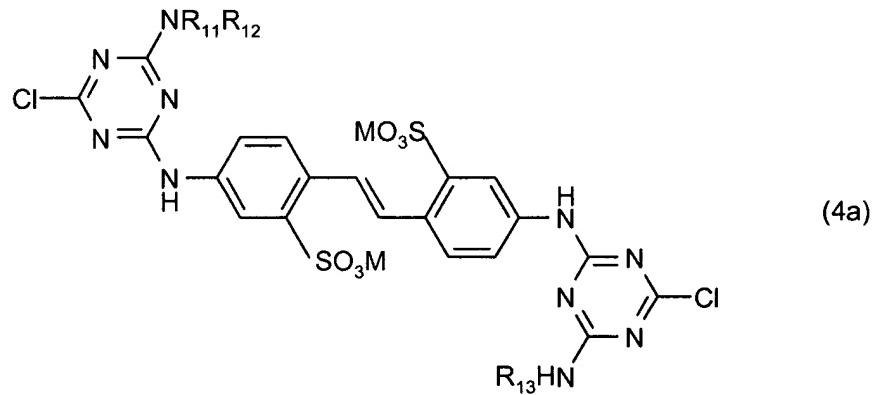
8. (previously presented): A process for the preparation of a compound of formula (3).



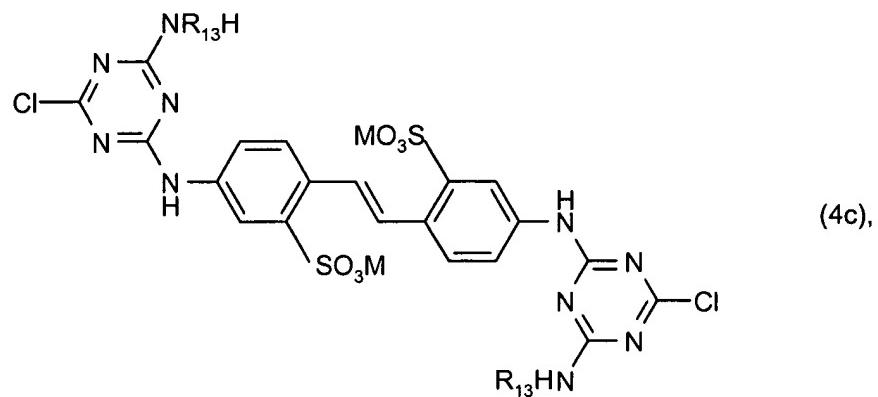
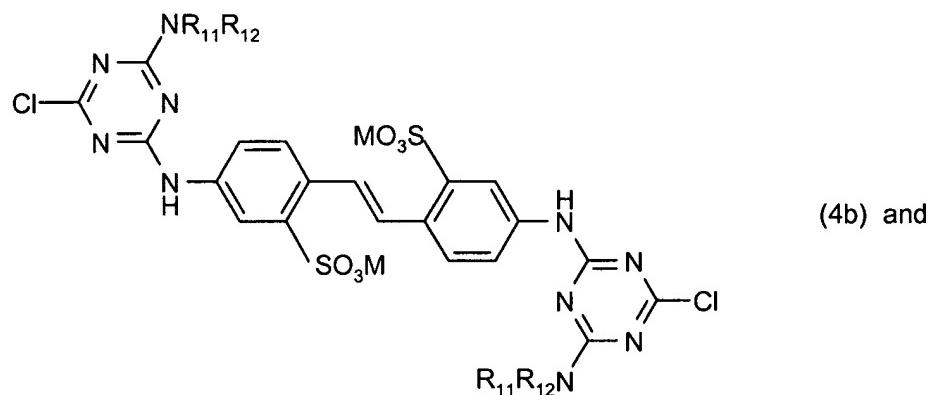
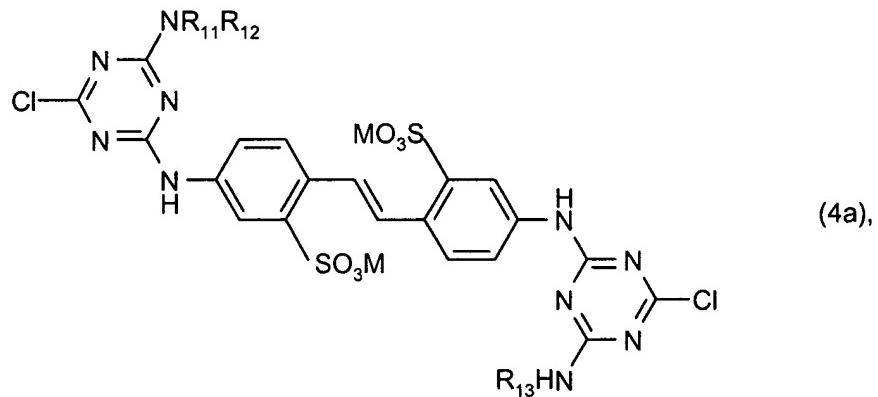
by reacting, under known reaction conditions, cyanuric chloride, successively, in any desired sequence, with each of 4,4'-diaminostilbene-2,2'-disulphonic acid, an amino compound of formula  $R_1R_2NH$ , an amino compound of formula  $R_5R_6NH$ , an amino compound of formula  $R_3R_4NY_1NH_2$  and a compound of formula  $R_9R_{10}NY_1NH_2$ ,

$Y$ ,  $Y_1$ ,  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_9$  and  $R_{10}$  being as defined in claim 5.

**9. (original): A compound of the formula**



or a mixture comprising compounds of the formulae

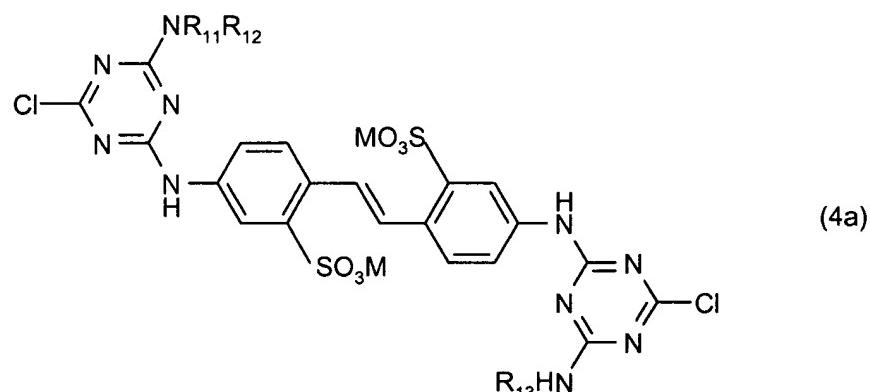


in which

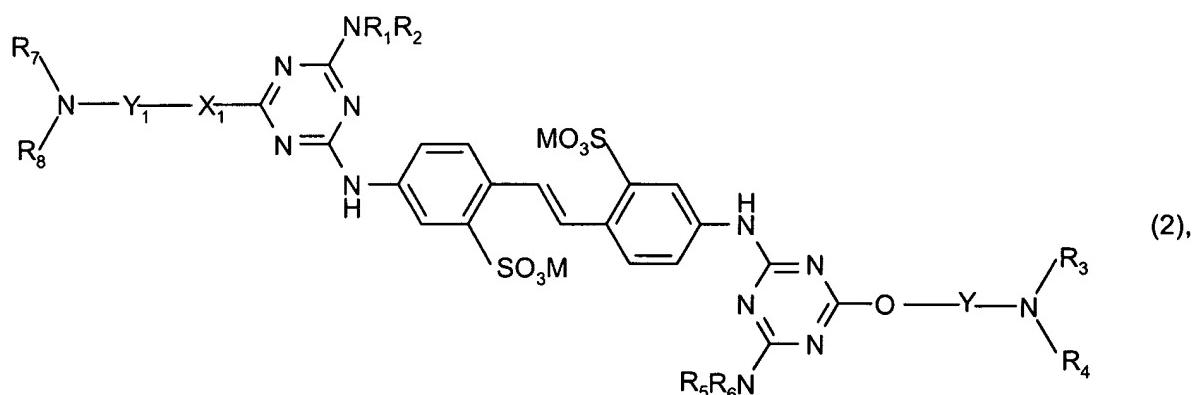
$R_{11}$  and  $R_{12}$ , each independently of each other, represent hydrogen, C<sub>1</sub>-C<sub>4</sub>alkyl, C<sub>2</sub>-C<sub>4</sub>hydroxyalkyl, C<sub>1</sub>-C<sub>4</sub>alkoxyC<sub>1</sub>-C<sub>4</sub>alkyl or, together with the nitrogen atom to which they are attached, complete a morpholino-, piperidino- or pyrrolidino-ring,  
 $R_{13}$  represents phenyl, which is unsubstituted or substituted by halogen, C<sub>1</sub>-C<sub>4</sub>alkoxy, C<sub>1</sub>-C<sub>4</sub>alkyl or sulphonamido and  
 $M$  represents hydrogen, an alkaline or alkaline earth metal, ammonium or alkyl ammonium.

**10. (previously presented):** A process for the preparation of a compound of formula (4a) or a mixture of compounds of formulae (4a), (4b) and (4c), according to claim 9, by reacting, under known reaction conditions, cyanuric chloride, successively, in any desired sequence, with each of 4,4'-diaminostilbene-2,2'-disulphonic acid, an amino compound of formula  $R_{11}R_{12}NH$  and an amino compound of formula  $R_{13}NH_2$  or with a mixture of amino compounds  $R_{11}R_{12}NH$  and  $R_{13}NH_2$ ,  $R_{11}$ ,  $R_{12}$  and  $R_{13}$ .

**11. (previously presented):** An intermediate of the compound of formula (4a),



for the preparation of a compound of formula (2),



in which, in formula (2),

$R_1$  and  $R_2$  each independently of each other, represent hydrogen,  $C_1$ - $C_4$ alkyl,  $C_2$ - $C_4$ hydroxyalkyl,  $C_1$ - $C_4$ alkoxy $C_1$ - $C_4$ alkyl or, together with the nitrogen atom to which they are attached, complete a morpholino-, piperidino- or pyrrolidino-ring,

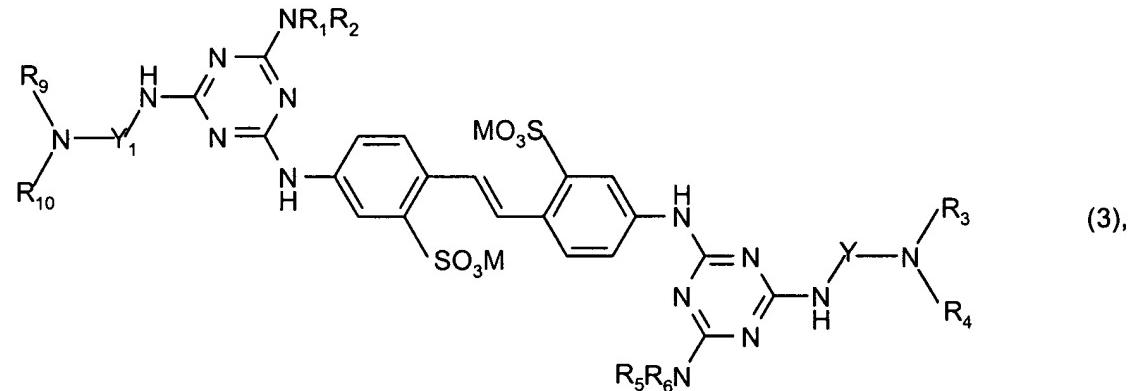
$R_5$  represents phenyl, which is unsubstituted or substituted by halogen,  $C_1$ - $C_4$ alkoxy,

$C_1$ - $C_4$ alkyl or sulphonamido,

$R_6$  represents hydrogen and

X<sub>1</sub>, Y, Y<sub>1</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>7</sub>, R<sub>8</sub> and M are as defined in claim 1 or

for the preparation of compound of formula (3),



in which, in formula (3),

R<sub>1</sub> and R<sub>2</sub> each independently of each other, represent hydrogen, C<sub>1</sub>-C<sub>4</sub>alkyl,

C<sub>2</sub>-C<sub>4</sub>hydroxyalkyl, C<sub>1</sub>-C<sub>4</sub>alkoxyC<sub>1</sub>-C<sub>4</sub>alkyl or, together with the nitrogen atom to which they are attached, complete a morpholino-, piperidino- or pyrrolidino-ring,

R<sub>5</sub> represents phenyl, which is unsubstituted or substituted by halogen, C<sub>1</sub>-C<sub>4</sub>alkoxy,

C<sub>1</sub>-C<sub>4</sub>alkyl or sulphonamido,

R<sub>6</sub> represents hydrogen and

Y, Y<sub>1</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>9</sub>, R<sub>10</sub>, and M are as previously defined in claims 1

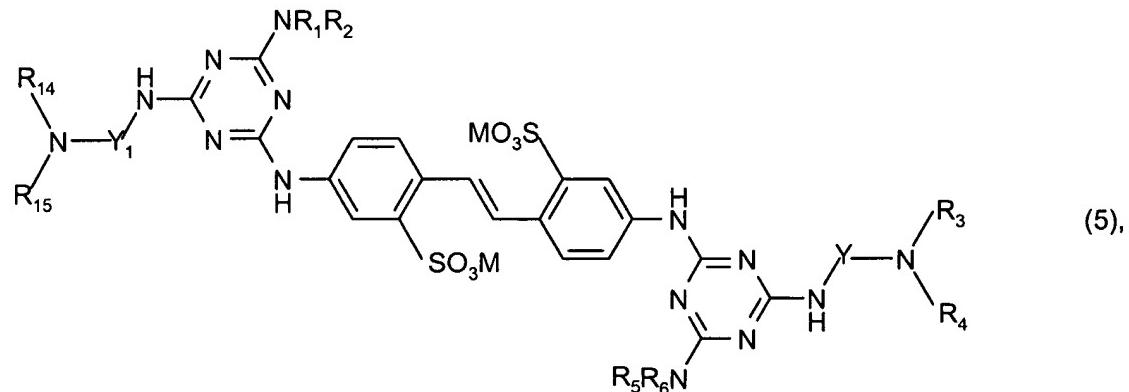
wherein R<sub>9</sub> and R<sub>10</sub>, each independently of each other, represent hydrogen or C<sub>2</sub>-C<sub>4</sub>hydroxyalkyl and, with the proviso that when

Y and Y<sub>1</sub> both represent -CH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>-, R<sub>1</sub> and R<sub>5</sub> are both phenyl and R<sub>2</sub> and R<sub>6</sub> are both hydrogen, R<sub>3</sub>, R<sub>4</sub>, R<sub>9</sub> and R<sub>10</sub> are not all -CH<sub>2</sub>CH<sub>2</sub>OH.

**12. (previously presented):** a method of fluorescent whitening paper comprising contacting the paper with a fluorescent whitening mixture of compounds of formulae (1a), (1b) and (1c), according to claim 1.

**13. (previously presented):** A method of fluorescent whitening paper comprising contacting the the paper with a fluorescent whitening agent of a compound of formula (2), according to claim 4.

14. (previously presented): A method of fluorescent whitening paper comprising contacting the paper with a fluorescent whitening agent of formula (5)



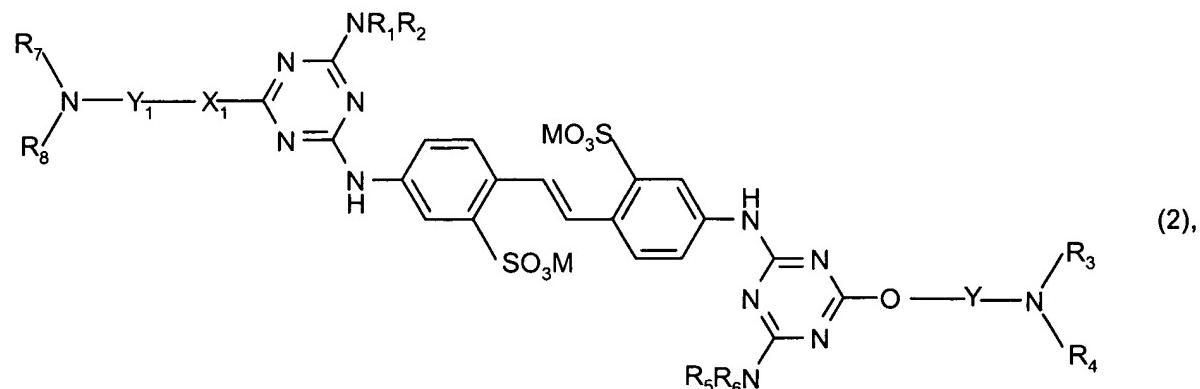
in which

R<sub>14</sub> and R<sub>15</sub>, each independently of each other, represent hydrogen, C<sub>1</sub>-C<sub>4</sub>alkyl or C<sub>2</sub>-C<sub>4</sub>hydroxyalkyl and

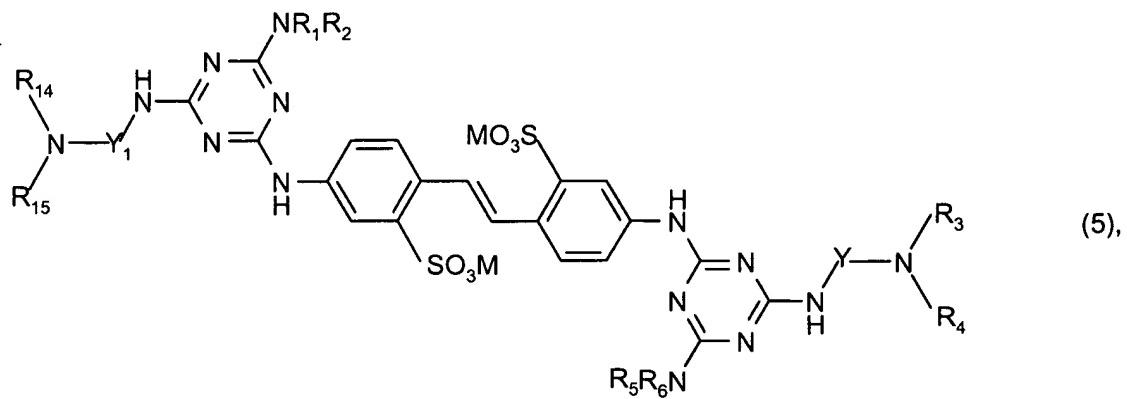
Y, Y<sub>1</sub>, R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, R<sub>6</sub>, and M are as defined in claim 1.

15. (previously presented): Paper, which has been treated with a fluorescent whitening agent comprising either a mixture of compounds of formulae (1a), (1b) and (1c), according to claim 1,

a compound of formula (2),



or a compound of formula (5),

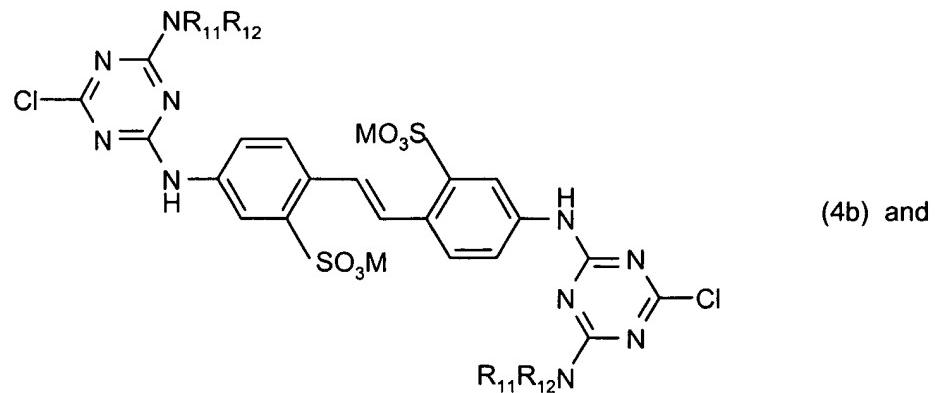
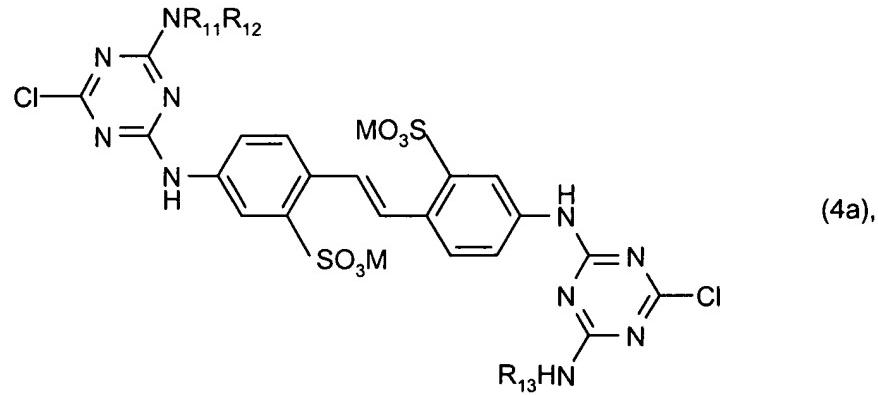


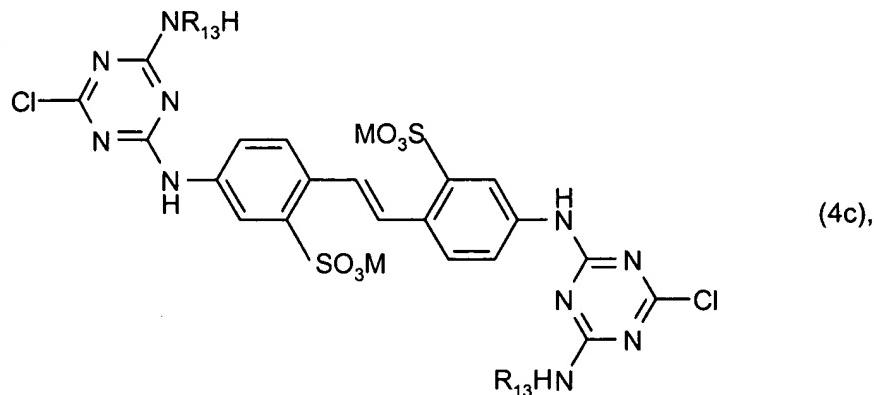
in which

$R_{14}$  and  $R_{15}$ , each independently of each other, represent hydrogen, C<sub>1</sub>-C<sub>4</sub>alkyl or C<sub>2</sub>-C<sub>4</sub>hydroxyalkyl and

$X_1$ ,  $Y$ ,  $Y_1$ ,  $R_1$ ,  $R_2$ ,  $R_3$ ,  $R_4$ ,  $R_5$ ,  $R_6$ ,  $R_7$ ,  $R_8$  and  $M$  are as defined in claim 1.

16. (previously presented): A mixture of intermediates of formulae (4a), (4b) and (4c),





in which in formulae (4a), (4b) and (4c),

$R_{11}$  and  $R_{12}$ , each independently of each other, represent hydrogen,  $C_1$ - $C_4$ alkyl,

$C_2$ - $C_4$ hydroxyalkyl,  $C_1$ - $C_4$ alkoxy $C_1$ - $C_4$ alkyl or, together with the nitrogen atom to which they are attached, complete a morpholino-, piperidino- or pyrrolidino-ring,

$R_{13}$  represents phenyl, which is unsubstituted or substituted by halogen,  $C_1$ - $C_4$ alkoxy,

$C_1$ - $C_4$ alkyl or sulphonamido and

M represents hydrogen, an alkaline or alkaline earth metal, ammonium or alkyl ammonium,

for the preparation of a mixture of compounds of formulae (1a), (1b) and (1c), according to claim 1,  
in which, in formulae (1a), (1b) and (1c),

$R_1$  and  $R_2$  each independently of each other, represent hydrogen,  $C_1$ - $C_4$ alkyl,

$C_2$ - $C_4$ hydroxyalkyl,  $C_1$ - $C_4$ alkoxy $C_1$ - $C_4$ alkyl or, together with the nitrogen atom to which they are attached, complete a morpholino-, piperidino- or pyrrolidino-ring,

$R_5$  represents phenyl, which is unsubstituted or substituted by halogen,  $C_1$ - $C_4$ alkoxy,

$C_1$ - $C_4$ alkyl or sulphonamido,

$R_6$  represents hydrogen and

X,  $X_1$ , Y,  $Y_1$ ,  $R_3$ ,  $R_4$ ,  $R_7$ ,  $R_8$  and M are as defined in claim 1.